

SALES & ENGINEERING DATA

PD20R-XXX-XXX and PD20Y-XXX-XXX 2" METALLIC DIAPHRAGM PUMP

RATIO
SERIES: **1:1**

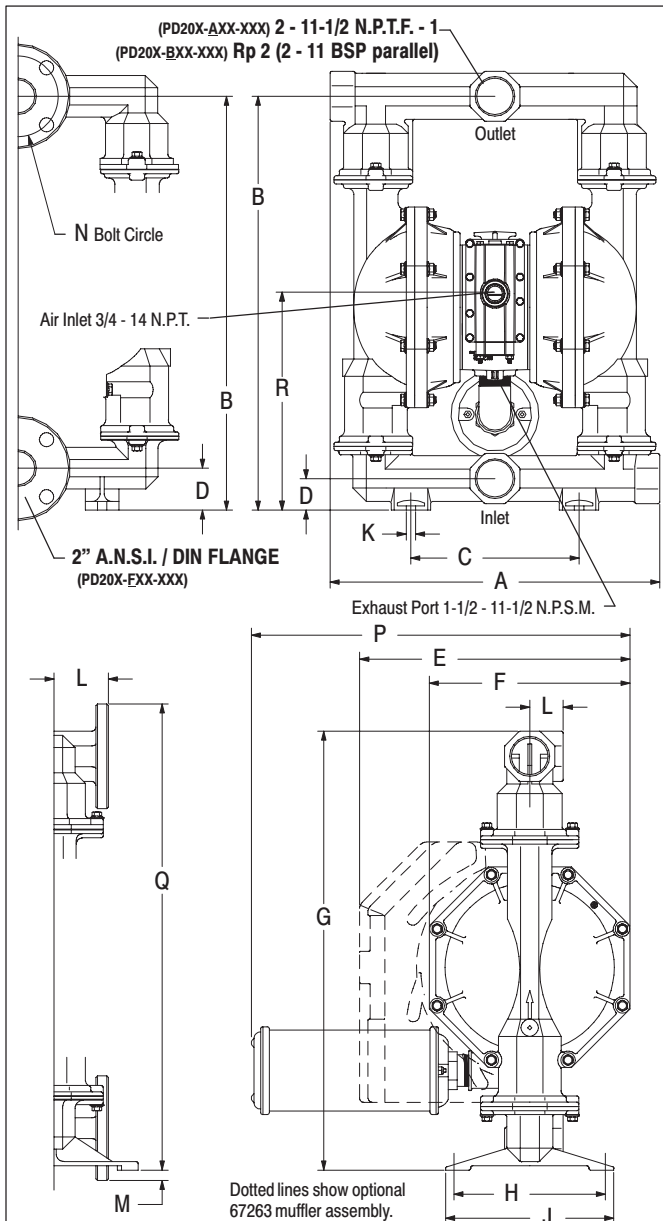
FLUID P.S.I.
RANGE: **20 - 120**

RELEASED: 9-12-03

REVISED: 9-16-11

(REV. 06) S-1289

DIMENSIONAL DATA



Dotted lines show optional
67263 muffler assembly.

DIMENSIONS

A	see below	G	26-1/4" (666.8 mm)	M	5/8" (15.9 mm)
B	24-3/4" (628.7 mm)	H	9-1/16" (230.2 mm)	N	4.834" (122.8 mm)
C	10-1/16" (255.6 mm)	J	10-1/16" (255.6 mm)	P	21-5/8" (548 mm)
D	see below	K	9/16" (14.3 mm)	Q	27-7/8" (708.0 mm)
E	16-3/16" (411.2 mm)	L	see below	R	13-9/16" (344.5 mm)
F	12" (304.8 mm)				
"A"					
PD20X-XCX	19-3/4" (501.4 mm)	1-7/8" (47.6 mm)	2" (50.8 mm)		
PD20X-AHX, -BHX	19-3/8" (492.1 mm)	2-1/2" (63.5 mm)	2-3/32" (53.0 mm)		
PD20X-ASX, -BSX	19-3/8" (492.1 mm)	2-1/2" (63.5 mm)	2-3/32" (53.0 mm)		
PD20X-FHX, -FSX	19-3/8" (492.1 mm)	2-1/2" (63.5 mm)	3-1/4" (82.6 mm)		

NOTE: Dimensions are shown in inches and (mm), supplied for reference only and are typically rounded up to the nearest 1/16 inch.

SPECIFICATIONS

CONSTRUCTION

Model Series	PD20R-XXX-XXX
	PD20Y-XXX-XXX
Pump Type	Metallic, Air Operated, Double Diaphragm
Ratio	1:1
Material Inlet / Outlet (female)	
PD20X-AXX-XXX	2 - 11-1/2 N.P.T.F. - 1
PD20X-BXX-XXX	Rp 2 (2 - 11 BSP parallel)
PD20X-FXX-XXX	2" A.N.S.I. / DIN Flange
Air Inlet (female)	3/4 - 14 N.P.T.
Air Exhaust (female)	1-1/2 - 11-1/2 N.P.S.M.
Weight	
PD20X-XCX-XXX	165 lbs (74.8 kgs)
PD20X-AHX-XXX	154 lbs (69.9 kgs)
PD20X-ASX-XXX	154 lbs (69.9 kgs)
PD20X-BHX-XXX	154 lbs (69.9 kgs)
PD20X-BSX-XXX	154 lbs (69.9 kgs)
PD20X-FHX-XXX	146 lbs (66.2 kgs)
PD20X-FSX-XXX	146 lbs (66.2 kgs)
Air Section Service Kit	637369
Fluid Section Service Kit	637309-XX

PD20X-XXX-X ☒ ☒
637309 - ☒ ☒

Diaphragm Material
Ball Material

EXAMPLE: Model # PD20Y-ACP-SAA
Fluid Section Service Kit is 637309-AA

PERFORMANCE

Air Inlet Pressure Range	20 - 120 p.s.i. (1.4 - 8.3 bar)
Maximum Material Inlet Pressure	10 p.s.i. (0.69 bar)
Fluid Pressure Range	20 - 120 p.s.i. (1.4 - 8.3 bar)
Maximum Flow Rate (flooded inlet)	170 g.p.m. (644 l.p.m.)
Displacement / Cycle @ 100 p.s.i.	1.4 gal. (5.3 lit.)
Maximum Particle Size	1/4" dia. (6.4 mm)
Maximum Temperature Limits (diaphragm / ball / seal material)	
E.P.R. / EPDM	-60° to 280° F (-51° to 138° C)
Hytrek	-20° to 150° F (-29° to 66° C)
Nitrile	10° to 180° F (-12° to 82° C)
Polypropylene	35° to 175° F (2° to 79° C)
PVDF (Kynar)	10° to 200° F (-12° to 93° C)
Santoprene	-40° to 225° F (-40° to 107° C)
PTFE	40° to 225° F (4° to 107° C)
Viton	-40° to 350° F (-40° to 177° C)
Noise Level @ 70 p.s.i. - 60 c.p.m.①	85.0 db(A)②

① Tested with 67263 muffler assembly installed.

② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

ACCESSORIES:

66473 Air Line Connection Kit
67263 Continuous Muffler
94117 Int. Muffler

airpumping.co.uk

est. 1979

Unit 16, Upminster Trading Park, Warley St, Upminster, Essex, RM14 3PI, ENGLAND

ARO

IR Ingersoll Rand
Industrial Technologies

PERFORMANCE CURVES

PD20X-XXX-XXX 2" METALLIC DIAPHRAGM PUMP

